Philips Norelco Bodygroom BG2026 Battery Replacement

Replace original batteries (Suppo HSY-AAA0.75-PHP) in a Philips Norelco Bodygroom BG2026 with compatible batteries (Panasonic Eneloop BK-4MCCE).

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INTRODUCTION

After a couple of years, the batteries of my Philips Norelco BG2026 degraded and only ran for a few minutes. I managed to exchange them with new ones. I used 2 Panasonic Eneloop BK-4MCCE which already had the terminals soldered (I paid around 4-5€ for them). Current run time is somewhere between 30 and 60 minutes.

This guide is probably valid for many other Philips Norelco Bodygroom devices (BG2xxx/BG3xxx series).

TOOLS:

- Soldering Iron (1)
- Solder (1)
- Desoldering Pump (1)
- iFixit Opening Tools (1)
- Flathead Screwdriver (1)
- T8 Torx Screwdriver (1)
- Cutting Plier (1)
- Electrical Tape in 6 Assorted Colors (1)
- Multipurpose Glue (1)

PARTS:

- Rechargeable NiMh AAA Battery with terminals (1)

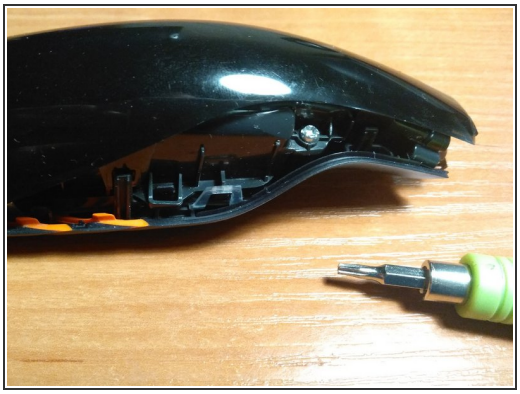
Step 1 — Preparation

- Remove the cutting blade by pulling it

Step 2 — Head removal

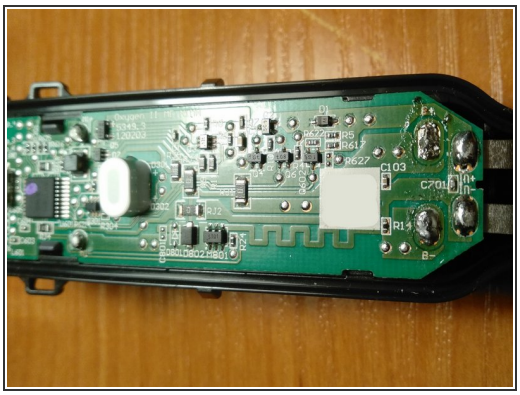
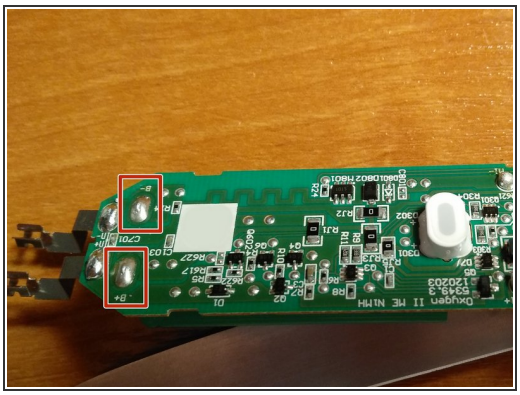
- Using a small flat-blade screwdriver or opening tools, remove the first cover -it seems to be glued, but it isn't
- Use a T8 screwdriver to remove the head bracket

Step 3 — Body opening


- Carefully remove the colored sides
- Pull the clips in the sides and pull back the cover
- Use a T8 screwdriver to separate the two parts of the body
- Remove the transparent cover by opening the clips carefully -there are three at each side

Step 4 — Battery removal

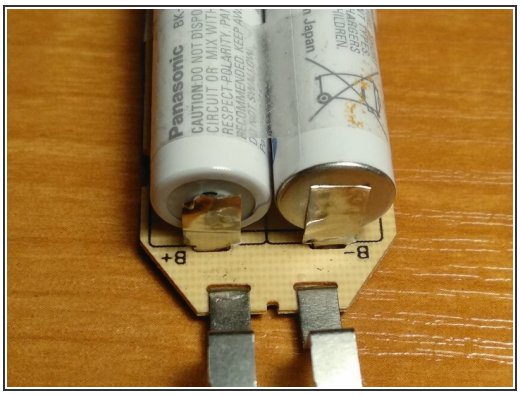



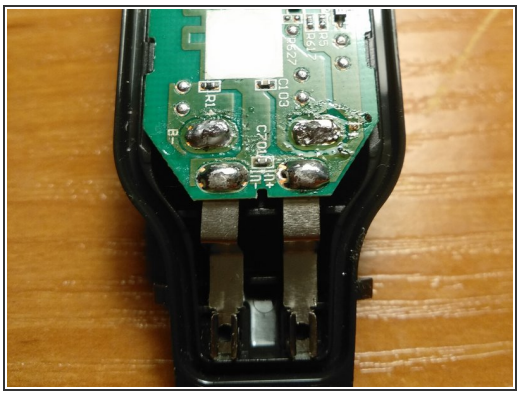

- Carefully pull circuit board and put it aside
- Desolder the old batteries (a desoldering pump helps) and detach them from the circuit board

Step 5 — New batteries preparation

- Buy only batteries with the terminals already soldered. If you try to solder them by yourself, probably you will overheat the battery, which will result in a partial or total damage of the battery
- Shape the positive terminal of one battery and the negative terminal of the other battery as in the picture. Use cutting pliers or a nail-clipper
- Use a small piece of metal (for example from the metal excess from the tabs you cut) and solder a positive and a negative terminals together. **Make sure you solder them as in the picture, or you will reverse the polarity**

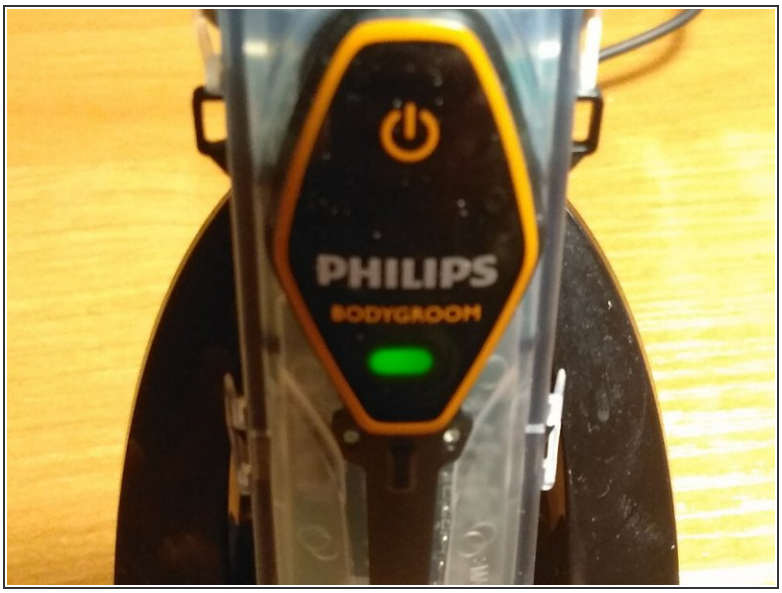
Step 6 — New batteries soldering





- Place the new batteries into the circuit board. **Pay attention to the polarity!**
- Solder the batteries from the front side
- Glue the batteries to the circuit board and add some tape in the back to prevent short-circuits
- Put back the circuit board in the case

Step 7 — Test and assembly



- Put the front cover (make sure the charging terminals make proper contact) and try to charge the new batteries. It should start flashing in green color.
- If it flashes multiple times fast in orange color, it means that the battery is not detected. Review the connections.
- Assembly the device by following steps 3 to 1

To reassemble your device, follow these instructions in reverse order.